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TP Modul 12

1. Source Code :

Index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>TP Modul 12 - Cari Tanda Bilangan</title>
<link href="https://cdn.jsdelivr.net/npm/tailwindcss@2.2.19/dist/tailwind.min.css"
rel="stylesheet">
</head>
<body class="bg-gray-100 flex items-center justify-center h-screen">
<div class="bg-white p-6 rounded-lg shadow-lg w-1/3">
<h2 class="text-xl font-semibold mb-4">Cari Tanda Bilangan</h2>
<input type="number" id="inputNumber" class="border p-2 w-full mb-4"
placeholder="Masukkan angka">
<button onclick="checkSign()" class="bg-blue-500 text-white px-4 py-2
rounded">Check</button>
<p id="output" class="mt-4 text-lg font-medium"></p>
</div>
<script src="script.js"></script>
</body>
</html>
```

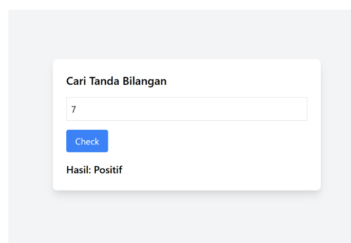
Script.js

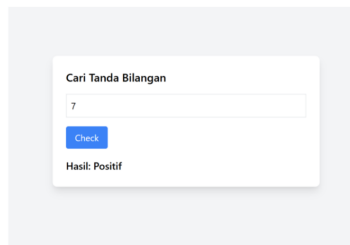
```
function CariTandaBilangan(a) {
if (a < 0) return "Negatif";
if (a > 0) return "Positif";
return "Nol";
}
function checkSign() {
const inputNumber = document.getElementById("inputNumber").value;
const output = document.getElementById("output");const result = CariTandaBilangan(parseInt(inputNumber));
output.textContent = `Hasil: ${result}`;
}
}
```

unitTest.js

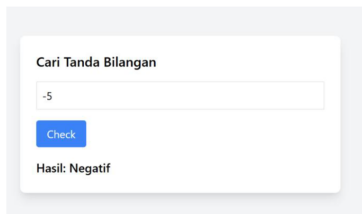
```
function testCariTandaBilangan() {
console.assert(CariTandaBilangan(-5) === "Negatif", "Test Case 1 Failed");
console.assert(CariTandaBilangan(0) === "Nol", "Test Case 2 Failed");
console.assert(CariTandaBilangan(7) === "Positif", "Test Case 3 Failed");
console.log("All test cases passed.");
}
testCariTandaBilangan();
```

2. Output :





A screenshot of a web application titled "Cari Tanda Bilangan". It features a text input field containing the number "7". Below the input field is a blue button labeled "Check". At the bottom of the form, the text "Hasil: Positif" is displayed.



A screenshot of the same web application titled "Cari Tanda Bilangan". The text input field now contains the number "-5". The blue "Check" button remains below it. The output text at the bottom now reads "Hasil: Negatif".

3. Penjelasan :

index.html berfungsi sebagai tampilan utama GUI sederhana yang terdiri dari satu textbox, satu button, dan satu label output.

script.js berisi implementasi fungsi CariTandaBilangan() dan event handler checkSign(). Fungsi CariTandaBilangan(a) menerima input berupa angka dan mengembalikan string "Negatif", "Nol", atau "Positif" sesuai aturan. Fungsi checkSign() mengambil input dari textbox, memanggil CariTandaBilangan(), dan menampilkan hasilnya di label output.

unitTest.js berfungsi untuk menguji fungsi CariTandaBilangan() menggunakan 3 test case